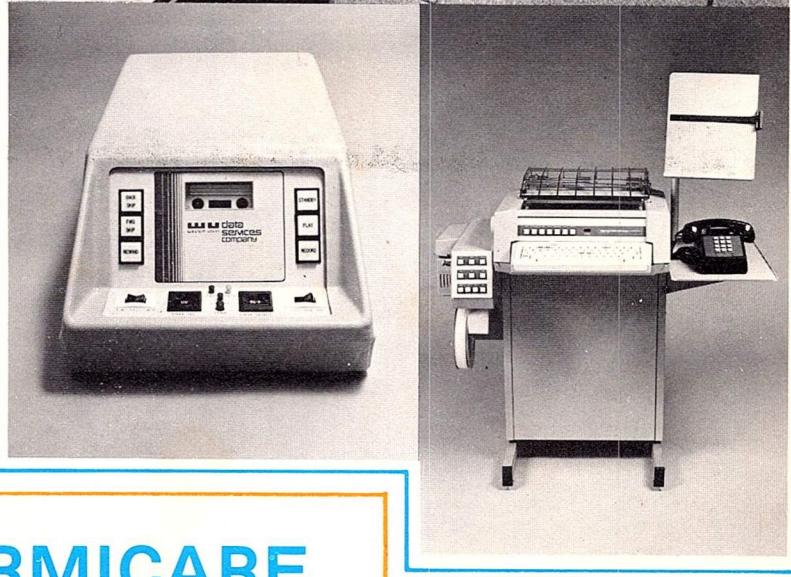
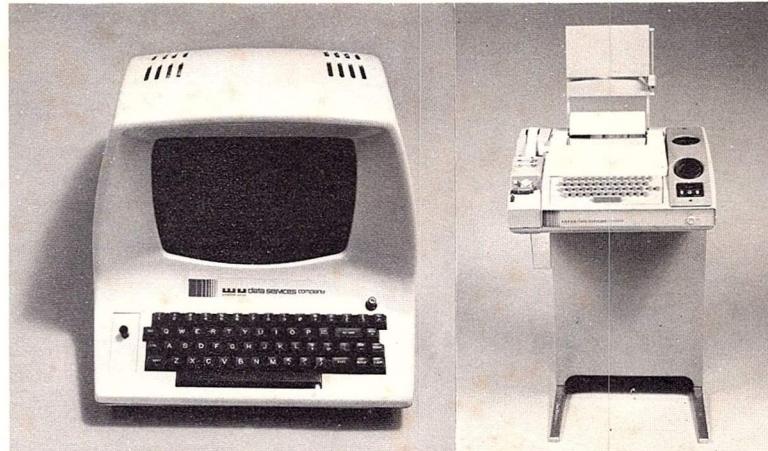


w u data services company
western union



**COMMUNICATION
TERMINALS
SUPPORTED BY TERMICARE**

INTRODUCTION

Western Union Data Services offers a broad line of data communications terminals with all the features, options, maintenance and supplies you need. We offer impact teleprinters—our Exchange Data Terminal series (EDT); and cathode ray tube terminals—our Video series. Our terminals operate at 10-, 30- and 120-characters per second. They are available with just a keyboard (KSR); with a paper tape buffer (ASR); and with a magnetic tape cassette buffer (MSR)—with or without integrated modems.

Whether you do timesharing, remote data entry or remote batch processing, talk to us. With thousands of terminals throughout the U.S., we have the experience and organization to help you.

TERMICARE SUPPORTED

Termicare™ is Western Union Data Services' total support system which goes to work the minute you sign up for one of our terminals. A detailed description of your terminals, along with installation dates, is entered into Termicare's computer, so that Termicare Center analysts at company headquarters will have your complete terminal records. On the day of installation, our service engineers test your terminals through terminal-to-terminal communications with the Termicare Center.

When you have a terminal problem or a question, you call one toll-free number for immediate over-the-phone diagnostic help from Termicare analysts. Frequently they clear up your problem instantly. Or they dispatch a service engineer from any of over 400 service locations throughout the United States. And Termicare monitors your problem until it is resolved.

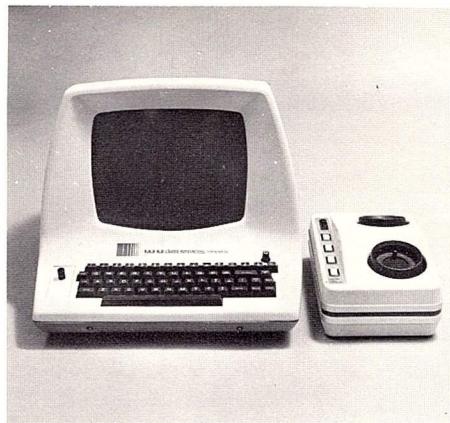
FOR REMOTE DATA ENTRY

Data collection and dissemination is simple for our ASR and MSR terminals. A central station such as a computer, mag-tape unit or EDT terminal can poll our ASR or MSR terminals to pick up prepared data and return hard copy to printing terminals; most often these remote terminals operate unattended. Our 1200-baud MSRs are used in many operations such as order entry, accounting and inventory services, branch-office reports, project accounting, general ledger preparation, and inquiry/response work.

VIDEO 100 SERIES

The Video 100 terminal is simple to operate as well as economical and reliable for use in timesharing and inquiry systems. It has a 59-key typewriter-type keyboard with a 12-inch diagonal screen. The bright display shows 24 rows of 80 characters that have been sent or received. Transmission can be in upper-and-lower case for remote output of all 128-character ASCII characters. Capable of full- or half-duplex operation, Video 100 offers 11 selectable speeds ranging from 75 to 19,200 baud.

Circle No. 50 on Inquiry Card

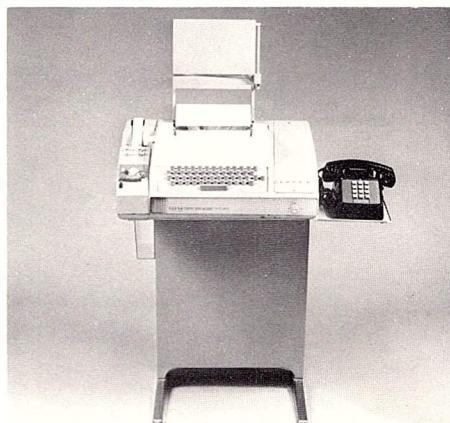


EDT 33 SERIES

This smallest multi-copy terminal is only 22 inches wide. Its four-row keyboard generates 63 ASCII printing graphics, plus the space character, in upper case and all control characters. It has a 72-character print line, with an 86-character line available. The EDT 33 produces an original and two copies on conventional paper.

Available in KSR, ASR and MSR configurations; and in basic, Data-Phone®, Data Access Arrangements (DAA) and acoustic-coupled arrangements.

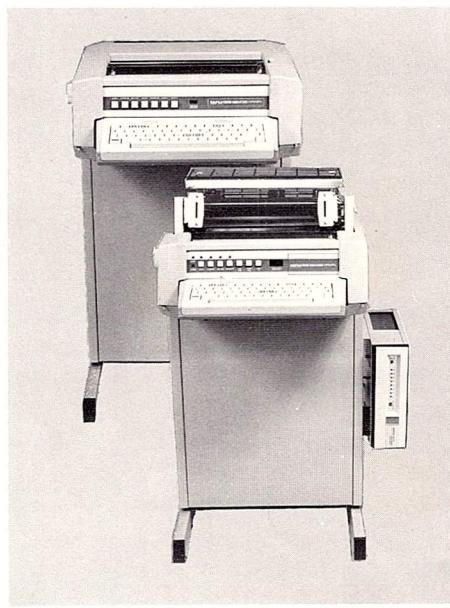
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EDT 300 & 1200 SERIES

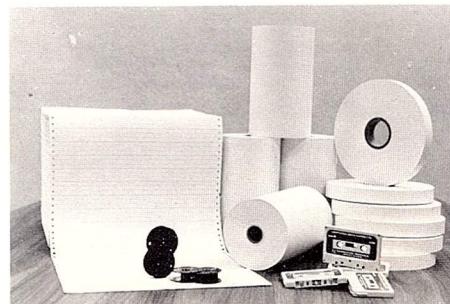
These quiet units transmit and receive over the dial-up network at 10-, 15- and 30-cps for the EDT 300 and at 10-, 30-, and 120-cps for the EDT 1200. Switch-selectable speeds allow these terminals to communicate with a variety of other teleprinters. Both units have standard keyboards that generate all 128 ASCII characters in a 118- or 120-print-position line, with a 75- or 80-position option. Each key generates one character at a time and each code stroke produces an adjustable, audible beep. The EDT 300 and EDT 1200 produce up to six copies. Paper up to 12 27/32" wide may be used. The EDT 300 and 1200 are available in KSR, ASR, and MSR configurations; and in basic, Data-Phone, DAA and acoustic coupled arrangements.

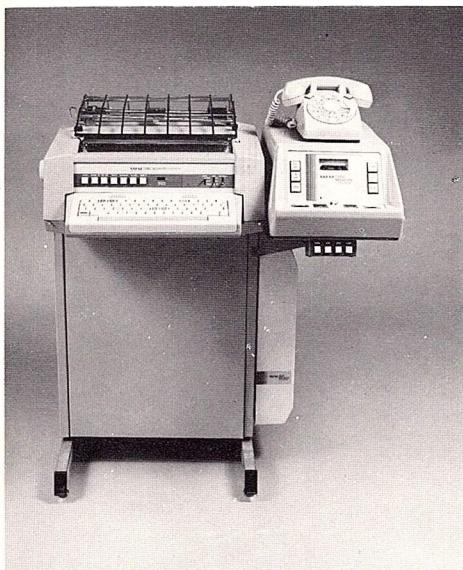
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TELEPRINTER SUPPLIES

We are a national supplier of paper rolls (up to three ply), paper tape, fanfold forms (8½" and 12 27/32" wide, 11" long), ribbons and magnetic-tape cassettes for use with our EDT 33, 35, 300 and 1200 terminals. We offer form-feed/vertical-tab accessories for our EDT 300 and 1200 devices.



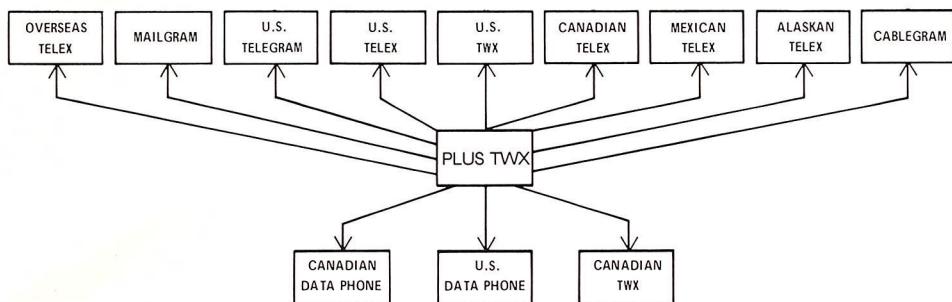


PLUS TWX FEATURES

Our Plus TWX™ terminal configuration gives you the dual capability of data transmission over the dial-up telephone system plus access to the TWX™ communications network—using only a single terminal.

We offer Plus TWX on a variety of terminals such as the EDT 33 MSR, EDT 300 ASR, EDT 300 MSR, and EDT 300 KSR. With Plus TWX you can send data on the dial-up network at up to 30 characters per second and TWX messages at 10 (or 15) cps. Plus TWX lets you do everything ordinary TWX does. All Plus TWX terminals have an integrated modem for direct connection to Telephone Company (DAA) and Western Union TWX (TAA) interconnect coupling devices.

Circle No. 53 on Inquiry Card



MAGNETIC TAPE BUFFER

Our magnetic tape cassette buffer has switch-selectable speeds of 10, 30, and 120 cps. As the intermediate between a system's terminals and its computer, our MSR buffers serve as a terminal system standardizer. This way different computer protocols are not required for different speeds of terminals on your system.

All our terminals can operate with our MSR buffer. For low-speed printing with faster on-line communications, our buffer acts as a speed converter. For both our low-and high-speed printers, our MSR buffer operates as a storage device for batch transmission.

It writes, reads, rewinds and does character editing under remote computer or local control. It also has a 24-character answerback for positive terminal identification. A control switch allows data search by stopping the tape after each character, word or line or the ASCII Group Separator (GS), File Separator (FS), or DC3 code. Forward-skip and back-skip controls facilitate high-speed data search to locate specific data recorded on tape. Error correction is easy—our MSR has backspacing for editing. Data can be corrected by character without affecting adjacent characters or data blocks.

Circle No. 54 on Inquiry Card



FOR TIMESHARING

All our terminals let your operator interact on-line with computers. For light volumes, use our low-cost Video 100 or EDT 33 ASR. For higher-usage sites, our EDT 300 ASR, KSR or MSR is reliable and efficient. To print lengthy reports with light data input use the EDT 1200 KSR or MSR. High volumes of data can be transcribed efficiently by our ASR and MSR terminals for storage and later transmission or printing.

OPTIONS

There are currently over 300 terminal options and special customer arrangements available to "customize" our terminals to your needs. Some of these are:

- Sprocket feed
- Vertical tabulation and form feed out
- Horizontal tabulation
- Answerback for terminal verification:
Printers - 20 characters
MSR - 24 characters
Video 100 - 32 characters
- Low paper and paper out alarm
- 103 operation
- acoustic couplers and integrated modems
- 202 operation
integrated modem; ETX, EOT or non-coded line control
- 1050 baud operation
- 11 unit code at higher speeds
- MSR auto rewind and printout
- Form accumulating shelf
- Printer copy holder
- MSR terminal accessory cabinet
- Paper tape winder/unwinder
- Mobile carts
- Numeric key pads
- Direct-connect computer interfaces

MSR SPECIFICATIONS

Tape:
0.150" wide, certified computer grade
2-1/2" x 4" Philips cassette

Cassette Capacity:
Approximately 300 feet

Storage Capacity:
In excess of 50,000 characters

Data Rate:
10, 15, 30, 60 120 cps (105 cps optional)

Tape Rewind Time:
Approximately 90" per second—total
rewind less than 55 seconds

Fast Forward:
350 cps nominal, at about 14 inches per
second tape speed

Fast Reverse:
150 cps nominal, at approximately 6 inches
per second tape speed

Specifications

EDT 33

EDT 300

EDT 1200

VIDEO 100

Data Transmission

Code:	USASCII x 3.4 - 1968 or 1963	USASCII x 3.4 - 1968	USASCII x 3.4 - 1968	USASCII x 3.4 - 1968
Interface:	AC, DAA & EIA	AC, DAA & EIA	EIA Standard RS 232C and DAA	EIA Standard RS 232
Speed Interactive:	10 cps - 110 Baud	10/15/30 cps	10, 30 and 120 cps	10, 15, 30, 60, 120, 180, 240, 480, 960, & 1920 cps
Type:	Serial asynchronous	Serial asynchronous	Serial asynchronous	Serial asynchronous

Printing/Display

Type:	Impact: original plus 2 copies	Impact: original plus 6 copies	Impact: original plus 5 copies	24 lines x 80 characters
Spacing:	Horiz.: 10 char/inch (12 cpi - optional) Vert.: 3 or 6 lines/inch	Horiz.: 10 char/inch Vert.: 3 or 6 lines/inch (operator selectable) (8 lpi optional)	Horiz.: 10 char/inch Vert.: 3 or 6 lines/inch (operator selectable) (8 lpi optional)	12" diagonal screen
Paper:	Friction-feed roll 8-1/2" wide paper sprocket feed 8-1/2" wide optional	Friction feed: 8-1/2" roll, mounting inside external feed up to 12-27/32" Optional: sprocket feed tractor feed	Sprocket feed tractor from 3" to 12.85" wide paper	
Character Set:	63 printable graphics (upper-case only)	94 printable graphics of USASCII including upper and lower case	94 printable graphics of USASCII including upper and lower case	64 displayable characters (optional 95 characters)
Ribbon:	Dual spool 1/2 inch 12 yd. DSC ribbon nylon	Dual spool 1/2 inch 16 yd. DSC ribbon silk or nylon	Dual spool 1/2 inch 16 yd. DSC ribbon silk or nylon	
Speed:	10 char/sec	10, 15, or 30 char/sec (operator selectable)	10, 30 or 120 char/sec (operator selectable)	10, 15, 30, 60, 120, 180, 240, 480, 960, 1920 char/sec (operator selectable)

Environmental

Temperature:	40°F to 110°F operating -40°F to 150°F storage	+32°F to 110°F operating -20°F to 160°F storage	+32°F to 110°F operating -20°F to 160°F storage	50°F to 120°F operating 0-150°F storage
Relative Humidity:	2 to 90% operating and storage	10 to 95% operating and storage	10 to 95% operating and storage	5 to 95% operating and storage
Altitude:	0 to 10,000 feet operating—no limit storage	0 to 12,000 feet operating - 0 to 50,000 feet storage	0 to 12,000 feet operating - 0 to 50,000 feet storage	0 to 12,000 feet operating no limit—storage

Electrical

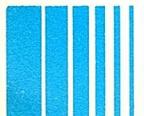
105 to 129 VAC, single phase, 60 Hz	± 0.45 Hz	-1.5 Hz + 1 Hz	-1.5 Hz + 1 Hz	-12 Hz + 3 Hz operating ± .5 Hz display stability
Standby:		KSR 60 ASR 60 MSR 145	KSR 60 ASR 60 MSR 145	80 Watts
Printing:	160 Watts	175 300 275	175 325 275	80 Watts (operating)

Physical

	KSR	ASR	MSR	KSR	ASR	MSR	KSR	ASR	MSR
Depth:	18-1/2"	18-1/2"	18-1/2"	22"	22"	22"	31.78"	31.78"	31.78"
Width:	18-5/8"	22"	33"	20.50"	26.75"	31.50"	20.50"	26.75"	31.50"
Height:	32-7/8"	32-7/8"	32-7/8"	37.06"	37.06"	37.06"	37.06"	37.06"	37.06"
Weight:	54lbs	56lbs	86lbs	125lbs	160lbs	155lbs	125lbs	160lbs	155lbs
									25 lbs.

FOR FURTHER INFORMATION

Call or write: General Sales Manager, Western Union Data Services Company,
70 McKee Drive, Mahwah, New Jersey 07430
Phone: Toll-free 800-631-7050; in N.J.—201-529-1170, TWX 710-988-5468



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